

# Ag-Analytics

## PRISM Precipitation API Documentation

2019

### Overview

Source data obtained from [PRISM Climate Group](#), Oregon State University. API provides accumulated precipitation to date for a given location.

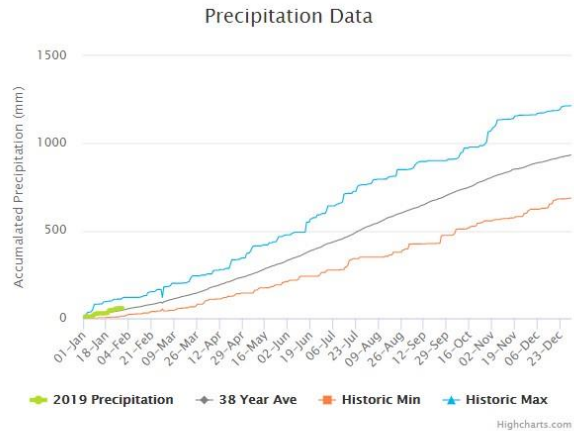
#### FARMCONDITIONSLIVE™ - PRECIPITATION DATA

Precipitation data. This graph shows accumulated precipitation to date compared to historical norms. These data are updated daily. Source data obtained from PRISM Climate Group, Oregon State University, <http://prism.oregonstate.edu>, tabulation created now.

Year Range End Value:

Year Range Start Value:

Start month:



PRISM Precipitation in FarmScope.

### API Specifications

#### Header Parameters

**Ocp-Apim-Subscription-Key:** Given upon purchase.

*This key is necessary to access the API and should be passed as a Header.*

**Execute Type:** GET

**URL:**

<https://ag-analytics.portal.azure-api.net/docs/services/precipitation/operations/get-average-cumulative-precipitation>

## Request Parameters

**Month day year:** Define the end year desired for data

range. **coordinateX:** Location coordinate. **coordinateY:**

Location coordinate. **startYear:** Define the start year

desired for data range.

## Example

### Request

```
https://ag-analytics.azure-api.net/precipitation/?  
month=2&day=1&year=2019&coordinateX=-88.989338594012&coordinateY=40.010959  
177421654&startYear=1981
```

### Response

```
{  
  "CumPrecipitation": [  
    {"Date": "2-1", "year": 2019, "Accumulated Precipitation": 0.0},  
    {"Date": "2-10", "year": 2019, "Accumulated Precipitation": 24.428},  
    {"Date": "2-11", "year": 2019, "Accumulated Precipitation": 27.281000000000002},  
    {"Date": "2-12", "year": 2019, "Accumulated Precipitation": 41.852000000000004},  
    {"Date": "2-13", "year": 2019, "Accumulated Precipitation": 42.158},  
    {"Date": "2-14", "year": 2019, "Accumulated Precipitation": 42.158},  
    {"Date": "2-15", "year": 2019, "Accumulated Precipitation": 42.158},  
    {"Date": "2-16", "year": 2019, "Accumulated Precipitation": 42.158},  
    {"Date": "2-17", "year": 2019, "Accumulated Precipitation": 43.638}  
  ]  
}
```

## Citation

Users who use these data in their Applications must use the button provided below.



Users who use in publications or data analysis must cite us in your publications as "PRISM Precipitation obtained via Ag-Analytics.Org (Woodard,2016a; Woodard, 2016b)" or similar with the following references:

- 1.) Woodard, J.D., "Big data and Ag-Analytics: an open source, open data platform for agricultural & environmental finance, insurance, and risk," *Agricultural Finance Review*, (2016) 76(1):15-26.
- 2.) Woodard, J.D., "Data Science and Management for Large Scale Empirical Applications in Agricultural and Applied Economics Research," *Applied Economic Perspectives and Policy*, (2016) 38(3): 373-388.

Each county zip file contains a shapefile, with format clu\_public\_a\_SSFFF where SS is the State abbreviation and FFF is the 3 digit county fips code (e.g., clu\_public\_a\_il001 is Adams County, IL)

**Format:** vector polygon - Arc shapefiles

**Spatial Reference Information:** Universal Transverse Mercator (UTM) Dominant Zone, North American Datum 1983

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